

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) A dual ~~polarised~~ polarized antenna comprising:

at least first and second substantially planar Vivaldi antenna elements having active portions for receiving or radiating signals from a direction forward of the antenna, the antenna elements having mutually intersecting planes and having phase ~~centres~~ centers of the active portions substantially co-located; ~~[[,]]~~ and ~~respective~~

antenna element feeds coupled to the respective antenna elements at a position to the rear of the active portions and displaced from an axis extending through the phase ~~centres~~ centers and the intersection of the planes of the antennas.

Claim 2. (Currently Amended) An antenna as claimed in claim 1 wherein the antenna ~~element includes~~ elements include an antenna feedline connected to the antenna element feeds at the position displaced from the axis.

Claim 3. (Original) An antenna as claimed in claim 2 wherein the antenna feedline crosses the axis.

Claim 4. (Original) An antenna as claimed in claim 3 wherein the antenna feedline comprises a stripline section and a twinline section.

Claim 5. (Original) An antenna as claimed in claim 1 wherein the element comprises a feed flare and an end flare.

Claim 6. (Original) An antenna as claimed in claim 5 wherein the element includes a substantially constant slot section disposed between the feed flare and the end flare.

Claim 7. (Original) An antenna as claimed in claim 1 wherein the feedline includes a parallel section substantially parallel to the axis.

Claim 8. (Original) An antenna as claimed in claim 7 wherein the parallel section of the first element has substantially the same length as the constant slot section of the other element.

Claim 9. (Currently Amended) An antenna as claimed in claim 1 wherein the locus of effective phase ~~centres~~ centers of the elements are co-located.

Claim 10. (Original) An antenna as claimed in claim 1 wherein the antenna elements are joined by mutually engaging formations.

Claim 11. (Original) An antenna as claimed in claim 10 wherein the mutually engaging formations include slots made in the elements.

Claim 12. (Currently Amended) An antenna as claimed in claim 11 wherein the elements are formed by substrates and ~~metallised~~ metallized layers.

Claim 13. (Original) An antenna as claimed in claim 1 wherein the first and the second elements have substantially matching end flares.

Claim ~~[[15.]]~~ 14. (Currently Amended) Radiowave receiving apparatus ~~including~~ having an antenna, comprising: as claimed in claim 1-

at least first and second substantially planar Vivaldi antenna elements having active portions for receiving or radiating signals from a direction forward of the antenna, the antenna elements having mutually intersecting planes and having phase centers of the active portions substantially co-located; and

antenna element feeds coupled to the respective antenna elements at a position to the rear of the active portions and displaced from an axis extending through the phase centers and the intersection of the planes of the antennas.

Claim ~~[[16.]]~~ 15. (Currently Amended) Radiowave transmitting apparatus ~~including~~ having an antenna, comprising: as claimed in claim 1-

at least first and second substantially planar Vivaldi antenna elements having active portions for receiving or radiating signals from a direction forward of the antenna, the antenna elements having mutually intersecting planes and having phase centers of the active portions substantially co-located; and

antenna element feeds coupled to the respective antenna elements at a position to the rear of the active portions and displaced from an axis extending through the phase centers and the intersection of the planes of the antennas.